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What is claimed is:

1. A radio transmission apparatus comprising: an antenna comprised of first and second linear polarization antenna elements perpendicular to each other;

modulating means for modulating transmission data to output a modulated signal; and

phase controlling means for providing a 180 degrees phase difference to the modulated signal corresponding to the transmission data to output.

- 2. The radio transmission apparatus according to claim 1, wherein the first and second linear polarization antenna elements are located with longitudinal directions thereof crossing.
- 3. The radio transmission apparatus according to claim 1, wherein the first and second linear polarization antenna elements are located at a spaced interval on a plane with a longitudinal relationship between the elements indicative of twisted positions.
- 4. The radio transmission apparatus according to claim 1, wherein the first and second linear polarization antenna elements are located at a spaced interval with a longitudinal relationship between the elements indicative of having an angle.
- 5. The radio transmission apparatus according to claim 1, wherein the phase controlling means is multiplying means for multiplying a transmission signal

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by a reference signal to multiply a reference signal that inverts a polarity of the transmission signal corresponding to the reference signal.

6. A radio transmission apparatus comprising: an antenna comprised of first and second linear polarization antenna elements perpendicular to each other;

modulating means for modulating transmission data
to output a modulated signal;

spreading means for spreading the modulated signal to output a spread signal; and

phase controlling means for providing a 180 degrees phase difference to the spread signal corresponding to a spreading code to output.

- 7. The radio transmission apparatus according to claim 6, wherein the first and second linear polarization antenna elements are located with longitudinal directions thereof crossing.
- 8. The radio transmission apparatus according to claim 6, wherein the first and second linear polarization antenna elements are located at a spaced interval on a plane with a longitudinal relationship between the elements indicative of twisted positions.
- 9. The radio transmission apparatus according to
  25 claim 6, wherein the first and second linear polarization
  antenna elements are located at a spaced interval with
  a longitudinal relationship between the elements

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indicative of having an angle.

- 10. The radio transmission apparatus according to claim 6, wherein the phase controlling means is multiplying means for multiplying a transmission signal by a reference signal to multiply a reference signal that inverts a polarity of the transmission signal corresponding to the reference signal.
- 11. A radio transmission apparatus comprising:
  an antenna comprised of first antenna element and
  second antenna element that provide different planes of
  polarization;

modulating means for modulating transmission data to output a modulated signal; and

a switch that switches the first antenna element and the second antenna element to input the modulated signal thereto corresponding to the transmission data.

12. A radio transmission apparatus comprising:
an antenna comprised of first antenna element and
second antenna element that provide different planes of
polarization;

modulating means for modulating transmission data to output a modulated signal;

spreading means for spreading the modulated signal to output a spread signal; and

as a switch that switches the first antenna element and the second antenna element to input the spread signal thereto corresponding to a spreading code.

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13. A radio transmission apparatus comprising:
an antenna that enables two kinds of polarizations
perpendicular to each other to be transmitted and further
enables the polarizations to be switched corresponding
to transmission data; and

modulating means for modulating the transmission data to output a modulated signal.

14. A radio transmission apparatus comprising:
an antenna that enables two kinds of polarizations
perpendicular to each other to be transmitted and further
enables the polarizations to be switched corresponding
to a spreading code;

modulating means for modulating the transmission data to output a modulated signal; and

spreading means for spreading the modulated signal to output a spread signal.

15. A radio reception apparatus comprising:
receiving means for receiving a signal transmitted
with a different plane of polarization;

- electric field strength detecting means for detecting an electric field strength of the signal; and determining means for making a data determination based on a detected result on the electric field strength.
- 16. The radio reception apparatus according to 25 claim 15, wherein the determining means makes a determination on data itself at the time of strong electric field strength, while with respect to data at

17. The radio reception apparatus according to claim 15, wherein the determining means comprises a D-flip flop receiving as its input data to be corrected and as its gate input a delayed judged result, and an X-NOR gate receiving as its inputs an output of the D-flip flop and the judged result.

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